

## Arkansas River near Haskell

Station AT165570 (120410010080-001AT) is a permanent ambient trend monitoring station near the midpoint of the Arkansas River in Oklahoma. Situated in the northeastern portion of Muskogee County, the site was established east of the town of Haskell on State Highway 104. The station is positioned near the midpoint of stream segment 120410010080 and is classified within the Polecat - Snake Creek 8-digit HUC watershed (11110101). Water enters the stream system from several tributaries including Snake Creek, Ash Creek, Cloud Creek, and Pecan Creek, among others.

This station on the Arkansas River has been active for all water quality variables since November of 1998. The following assessment of beneficial uses is based on data collected from October of 1999 through September of 2004. For purposes of reporting, this station is representative of the Arkansas River from the confluence of Snake Creek (95.8344, 35.9305) downstream to confluence of the Arkansas River with Pecan Creek (95.4348, 35.7990). As per Oklahoma Water Quality Standards, Appendix A, Table 6 of Oklahoma Administrative Code (OAC) 785:45, this water quality management segment is assigned the following designated beneficial uses: 1) Emergency Water Supply (EWS), 2) Warm Water Aquatic Community—Fish and Wildlife Propagation (WWAC), 3) Agriculture—Class I Irrigation (AG), and 4) Secondary Body Contact (2)—Recreation (PBCR).

The WWAC beneficial use is supported. Dissolved oxygen (Figure 58a), pH (Figure 58b), turbidity (Figure 58c) and toxicant samples met the criteria prescribed in the WWAC beneficial use. The AG beneficial use is partially supported (Figure 58d and Figure 58e). Of the forty-five (45) total dissolved solids concentrations, nine (9) of the samples (or 20%) exceeded the minimum sample standard of 1168 mg/L. Chlorides and sulfates are within the prescribed sample standards and yearly means. The PBCR beneficial use is not supported (Table 26). Of the twenty-two (22) enterococci concentrations, one (1) sample exceeded the prescribed screening level of 406 cfu/mL, and the geometric mean (36.0 cfu/mL) exceeded the prescribed mean standard of 33 cfu/mL. This segment of the Arkansas River is not nutrient-threatened. The total phosphorus and nitrate/nitrite median values were below the threshold medians of 0.36 mg/L and 5.0 mg/L, respectively (Figure 58f).

**Figure 58a-f.** Dissolved Oxygen (a), pH (b), Turbidity (c), Total Dissolved Solids (d), Minerals (e), and Nutrients (f) for the Arkansas River at Haskell (AT165570), 1999-2004.



